

Center for Supercritical Fluid Separations

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Background

Established in 1986 and received "Distinguished Center" status in 1991 as a focal point for research and development, education, and training in chemical analysis where high resolution separations and high sensitivity detection are emphasized.

FY94-95 Overview

Current

1994-95 Award	\$100,000
Matching Funds	\$226,533
Patents Pending	0
Patents Issued	1
License Agreements	3
Spin-off Companies	0
Companies Assisted	2
Industry Jobs Created	24
Center Jobs Created	15

Cumulative Overview

Cumulative

Awards	\$576,440
Matching Funds	\$3,668,059
Patents Issued	10
License Agreements	3
Spin-off Companies	2

Technologies

- Supercritical fluid chromatography
- Supercritical fluid extraction
- Radiofrequency plasma detection
- Time-of-flight mass spectrometry
- Column technology for capillary chromatography and electrophoresis

Center Highlights

- Dionex Corporation (a center spin-off company) estimates a **\$1.5 million value to the state** of Utah through use of Center-developed technologies.
- Sensar Corporation (a center spin-off company) estimates a **\$1 million value to the state** of Utah through use of Center-developed technologies.
- The Center has **developed new technology** for deactivating small diameter spherical silica packing materials, which will expand the application range of supercritical fluid chromatography, particularly in the pharmaceutical industry.
- The Capillary electrophoresis/time-of-flight mass spectrometer system is under construction and should be ready for testing in one or two months. Additional funding for this project has come from the Environmental Protection Agency.
- Center Director Milton L. Lee has received the **R&D 100 Award**, given annually for the 100 **technologically most significant products** developed nationally.